

*Carriet*~~SECRET~~**CONFIDENTIAL** 16 September 1955

MEMORANDUM FOR: THE RECORD

SUBJECT: Meeting with Quantico Marines on Infrared Landing of Helicopter

1. Time and Place of Meeting: 13 September 1955, 1700 to 0100, 14 September 1955, HMX-1, Quantico, Va.2. Attendance: Lt. Billy Green HMX-1  
Maj. Quick HMX-1

25X1

3. Purpose: To check on results of installing a 14 mile cp carbon arc (d.c.) in the Helicopter and attempt to determine the feasibility of accomplishing the required results.4. Discussion: The carbon arc light had previously been tried with a 3/4 inch thick IR filter which cut the range to an unuseable figure. XRX-55 filter was taped to the clear lens. The filter performed satisfactorily without adverse effects from the heat. The beam angle is approximately 1° which for medium range (500 ft.) is not large enough. Objects pass through the beam before they can be recognized. Maximum range with the viewers used (AN-SAR/4-X and T-6 Binocs) was sufficient, although greater range would be desirable. The T-6 binoculars were tested with mixed reactions - the range was not as good as the An-SAR-4 but the binocular arrangement was desirable for depth perception. The field of view was better with the binoculars also.

Some discussion concerned the closed TV type presentation.

5. Conclusions and Recommendations: It will be necessary to design a light source with a variable beam width. The viewing device should use at least the 16 KV tubes.

25X1

Distribution:

Orig. - P-60D ✓

2

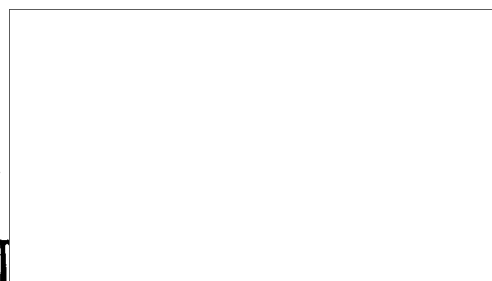
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TSS/APD

25X1

TSS/APD/RTW/bb



25X1

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